



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
P.O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO  
ATTENTION OF

SEP 12 2005

Planning Division  
Environmental Resources Branch

TO THE ADDRESSEES ON THE ATTACHED LIST

The Jacksonville District, U.S. Army Corps of Engineers, carried out a reevaluation of the possible alternatives considered for the Section 206 Aquatic Ecosystem Restoration C-1 Rediversion Project in Brevard County, Florida. The purpose of this notice is to inform all interested parties that two additional alternatives were evaluated after completion of the Environmental Assessment process for this work, and that this reevaluation did not result in a change in the selected alternative.

Refer to the final Environmental Assessment and Finding Of No Significant Impact (EA and FONSI) found under the same title at the Jacksonville District's on-line archive of environmental documents and notices. This is found at:

<http://planning.saj.usace.army.mil/envdocs/envdocsb.htm>

The new alternatives considered allowing a 14-foot or a 17-foot crest-height for the C-1 water level. This would verify whether or not the previously selected alternative, a 16-foot crest height, would be surpassed in environmental benefits by allowing a lesser or greater crest-height in the canal water level. A table showing compared weighted alternatives is enclosed.

Modeling indicates that the 14-foot crest-height alternative will allow fresh-water discharges of between 400 cfs and 700 cfs into Turkey Creek and thence into the Indian River Lagoon (IRL). This would entail a drop in Indian River Lagoon salinity below the desired 20 ppt, and would therefore be unacceptable in either the pure Obermeyer weir design modality (alternative 15e) or the hybrid Obermeyer/fixed weir design modality (alternative 16e).

Modeling indicates that the 17-foot crest-height alternative will attain the desired lowered freshwater discharges and elevating of IRL salinity to 20 ppt or more. However, this is no better than the results modeled for the previously selected alternative 15b.

This would be in either the pure Obermeyer weir design modality (alternative 15d) or the hybrid Obermeyer/fixed weir design modality (alternative 16d).

The selected Preferred Alternative remains Alternative #15 b: "Intermediate Water Control Structure (IWCS) C-1 canal approximately 3 miles west of the MS-1 structure. Consists of an Obermeyer or hybrid/mixed Obermeyer weir type structure, and 2 electric pumps installed along L-74 with a total capacity of 200 cfs, to transfer water from C-1 Retention and Detention Areas to the Sawgrass Lakes Water Management Area (SLWMA)."

Point of contact for this office is Mr. Esteban Jiménez, at telephone number 904-232-2115.

Sincerely,

 Stuart J. Appelbaum  
Chief, Planning Division

Enclosures

Alternatives Listed	Fresh Water Flow Decrease (%)	Seagrass Value (HU)	Weight x2	Clam Value (HU)	Weight x1	Fish Value (HU)	Weight X1	Averaged Sum	Lift
No Action	0	0.100	0.20	0.500	0.50	0.500	0.50	0.4	0
15a	75	0.175	0.35	0.875	0.88	0.875	0.88	0.7	+0.3
15b	74	0.174	0.35	0.870	0.87	0.870	0.87	0.7	+0.3
15c	70	0.170	0.34	0.850	0.85	0.850	0.85	0.7	+0.3
15d	75	0.176	0.35	0.880	0.88	0.880	0.88	0.7	+0.3
15e	0	0.100	0.20	0.500	0.50	0.500	0.50	0.4	0
16a	75	0.175	0.35	0.875	0.88	0.875	0.88	0.7	+0.3
16b	74	0.174	0.35	0.870	0.87	0.870	0.87	0.7	+0.3
16c	70	0.170	0.34	0.850	0.85	0.850	0.85	0.7	+0.3
16d	75	0.176	0.35	0.880	0.88	0.880	0.88	0.7	+0.3
16e	0	0.100	0.20	0.500	0.50	0.500	0.50	0.4	0



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